

# Volvo BM L120C



- **Engine output SAE J1349:**  
gross 153 kW (208 hp)  
net 148 kW (201 hp)
- **Operating weight:** 18,0–20,2 t
- **Buckets:** 3,0–9,5 m<sup>3</sup>
- **Torque Parallel Linkage**
  - high breakout torque throughout the working range
  - excellent parallel lift-arm action
- **Volvo low emission engine**
  - with excellent low rpm lugging performance
  - meets all known exhaust emission regulations for off-road vehicles until 2001
- **Volvo BM transmission with APS II**
  - 2nd generation Automatic Power Shift with mode selector
  - optimises performance
- Fully sealed oil-circulation cooled wet disc brakes, outboard mounted
- **Care Cab** – pressurized cab with high comfort and safety
- **Contronic** monitoring system
- **Load-sensing** steering system
- Pilot-operated working hydraulics
  - Hydraulic attachment bracket (option)

**VOLVO BM**

Document Title: <b>Description</b>	Function Group: <b>000</b>	Information Type: <b>Service Information</b>	Date: <b>8/17/2020</b>
Profile:			

## Description

The machine is a four-wheel drive loader with articulated frame steering.

The engine is a six-cylinder, four-stroke direct-injection turbocharged diesel engine type TD63KBE (L90C), TD73KDE (L120C).

The transmission is hydro-mechanical, where all gears are in constant mesh, with the designation HT131 for L90C and HT205 for L120C.

Between engine and transmission there is a single stage hydraulic torque converter.

The front and rear axles have fully floating drive shafts with planetary gears in the wheel hubs. The front axle is provided with a differential lock.

The service brakes are of the disc brake type running in oil, built integrally with the planetary gear of each wheel hub. The parking brake on L90C is of the disc brake type and is positioned externally on the transmission output shaft. The parking brake on L120C is of the disc brake type running in oil and is positioned internally on the transmission output shaft. The steering system is hydrostatic with a variable load-sensing axial piston pump and two hydraulic cylinders (steering cylinders).

For further description of function and components, see the respective sections.



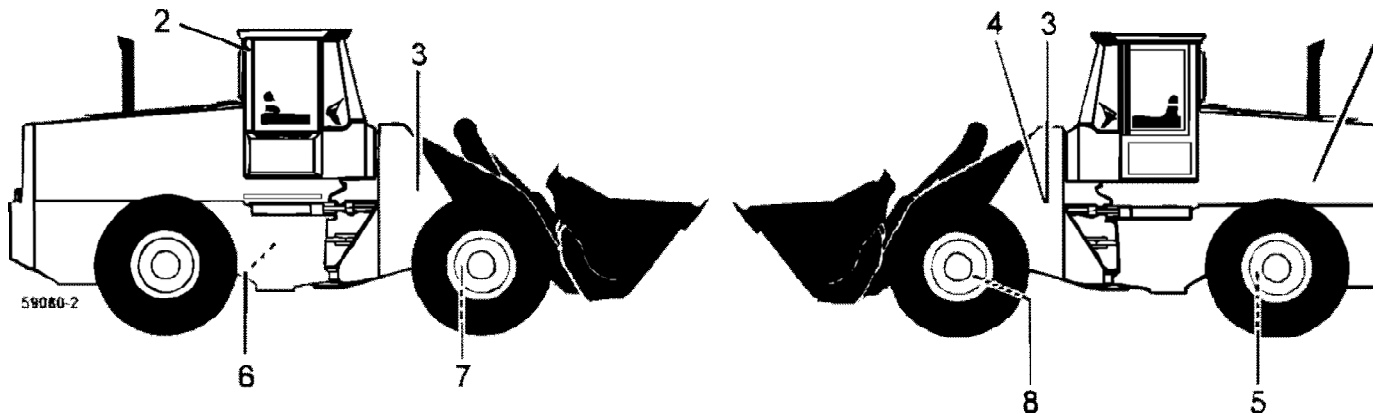
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**Figure 1**  
Loader L90C / L120C

Document Title: <b>Product Identification Plates</b>	Function Group: <b>000</b>	Information Type: <b>Service Information</b>	Date: <b>8/17/2020</b>
Profile:			

## Product Identification Plates

From the picture and the text below it can be seen which product identification plates should be found on the machine. When ordering spare parts and when making enquires per telephone or correspondence, the model designation and Product Identification Number, (PIN) should be stated. When applicable the data on the additional plate, "INCL. PARTS." should be stated.



**Figure 1**  
Product Identification Plates

1. Engine type designation, part and serial number are stamped on the side of the cylinder block (the left side of the machine)
2. Cab type, type approval and serial number are positioned by right roof post inside in the cab.
3. Product plate with Product Identification Number, PIN for the complete machine (shows model designation, engine manufacturer and serial number). The plate is fitted on the left side of the front frame. Model designation and serial number are also visibly stamped on the right side of the front frame. On the plate there is room for the CE mark (only within the EU/EES).
4. Plate which shows all fitted equipment (is positioned next to the product plate)
5. The rear drive axle product and serial number are positioned on the axle housing on the right side.
6. The transmission product and serial number are positioned on the right side of the transmission.
7. The front drive axle product and serial number are positioned on the axle housing (above the differential lock electrical connector).
8. Component plate with Component Identification Number, CIN for the differential carrier assembly is positioned on the lower part of the differential housing.

Document Title: <b>After towing/recovering</b>	Function Group: <b>170</b>	Information Type: <b>Service Information</b>	Date: <b>8/17/2020</b>
Profile:			

## After towing/recovering

Before the towbar or wire rope are removed after towing/recovering, the following safety measures should be taken:

- ☐ Place the machine on level ground.
- ☐ Apply the parking brake.
- ☐ Block the wheels so that the machine cannot begin to roll.

Document Title: <b>Charging batteries</b>	Function Group: <b>170</b>	Information Type: <b>Service Information</b>	Date: <b>8/17/2020</b>
Profile:			

## Charging batteries

### **Risk of explosion**

When charging, the battery gives off hydrogen gas, which, when mixed with air, will cause an explosion if ignited. Short-circuiting, an open flame or spark close to the battery can cause a powerful explosion. Always turn off the charging current before the lead clips are disconnected from the battery. Keep the place where the battery is being charged well ventilated, especially if it is a small enclosed area.

### **Corrosive sulphuric acid**

The battery electrolyte contains corrosive sulphuric acid. If you spill electrolyte on your skin, wash immediately with soap and plenty of water. If electrolyte gets into the eyes or comes into contact with any other sensitive part of the body, rinse with plenty of water and contact a doctor immediately.

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